RECEIVED 1 2 FEB 2004 PATENT COOPERATION TR From the INTERNATIONAL ARCHING AUTHORITY To: PCT NOTIFICATION OF TRANSMITTAL OF Davies Collison Cave PO Box 2219 THE INTERNATIONAL SEARCH REPORT MILTON BUSINESS CENTRE OLD 4064 OR THE DECLARATION (PCT Rule 44.1) Date of mailing 10 FEB 2004 (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION See paragraphs 1 and 4 below 12177502/VPA/sjw International application No. International filing date PCT/AU2003/001021 12 August 2003 Applicant THE UNIVERSITY OF QUEENSLAND et al The applicant is hereby notified that the international search report has been established and is transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46): When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report. Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35 For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith. 3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. Shortly after 18 months from the priority date, the international application will be published by the International Bureau.

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If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later);

otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months. See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

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## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 12177502/v	FOR FURTHER ACTION	see Notification of Tr (Form PCT/ISA/220)	ansmittal of International Search Report as well as, where applicable, item 5 below.
International application No. PCT/AU2003/001021	International filing date (	day/month/year)	(Earliest) Priority Date (day/month/year) 12 August 2002
Applicant THE UNIVERSITY OF QUEE			
This international search report has been prep Article 18. A copy is being transmitted to the	ared by this International S	earching Authority and	is transmitted to the applicant according to
This international search report consists of a to			
X It is also accompanied by a copy		t cited in this report.	
Basis of the report			
which it was fried, unless otherw	rise indicated under this iter	m.	f the international application in the language in
(Rule 23.1(b)).			ernational application furnished to this Authority
<ul> <li>With regard to any nucleotide as carried out on the basis of the se</li> </ul>	nd/or amino acid sequence quence listing:	e disclosed in the interna	ational application, the international search was
. 🖳	nal application in written fo		
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· <u></u>	this Authority in written for		
	his Authority in computer		-
application as filed has bee	n lumished.		t go beyond the disclosure in the international
the statement that the infor	mation recorded in compute	er readable form is ident	tical to the written sequence listing has been
2. Certain claims were found unse	earchable (See Box 1).		
Unity of invention is lacking (Se	ee Box II).	·	
4. With regard to the title, X	the text is approved as sub-	mitted by the applicant.	
	the text has been establishe	ed by this Authority to re	ead as follows:
5. With regard to the abstract, X	the text is approved as sub	mitted by the applicant	
	the text has been establishe The applicant may, within on submit comments to this A	one month from the date	.2(b), by this Authority as it appears in Box III.
<ol><li>The figure of the drawings to be publis</li></ol>	shed with the abstract is Fig	ure No.	
	as suggested by the applica	nt.	X None of the figures
	because the applicant failed	l to suggest a figure	
	because this figure better ch	naracterizes the inventio	n ·



International application No.

PCT/AU2003/001021

Α.	CLASSIFICATION OF SUBJECT N	1ATTER	8	
Int. Cl. 7:	C12N 5/16; A61K 35/14			
According to	o International Patent Classification (IPC)	or to bot	th national classification and IPC	
В.	FIELDS SEARCHED			
See Electro	cumentation searched (classification system fo onic Database		,	
See Flectro	onic Database		xtent that such documents are included in the fields sea	rched
I IDS, MEL	ta base consulted during the international search DLINE; CA: APC, antigen presenting phibit, modulate, antagonise, decrease	cell, der	of data base and, where practicable, scarch terms used) adritic cell, macrophage, activity, expression, as	CD40, NF kappa
C.	DOCUMENTS CONSIDERED TO'BE R	ELEVAN	T	
Category*	Citation of document, with indication,	where ap	opropriate, of the relevant passages	Relevant to claim No.
Х	McRae et al. (2000) 'Interferon-a a immunocompetent human dendritie Blood. Vol 96(1): 210-217	ind β inh c cells fr	nibit the in vitro differentiation of com CD14 <sup>+</sup> precursors'	1,3, 6-8, 14-17, 35-40, 46-58
X	Yoshimura et al. (2001) 'Effective dependent: coordinate regulation o International Immunology. Vol 13(	f MHC,	presentation by dendritic cells is NF-κB co-stimulatory molecules and cytokines' 683	1,3, 6-8, 10, 14, 15, 18-20, 25, 28, 30, 33, 34, 35, 38-58
	Further documents are listed in the cor	ıtinuatio	on of Box C See patent family and	nex
"A" docume which i relevan E" earlier:	l categories of cited documents: ent defining the general state of the art is not considered to be of particular nce application or patent but published on or e international filing date	"X" d	ater document published after the international filing dand not in conflict with the application but cited to undor theory underlying the invention document of particular relevance; the claimed invention considered novel or cannot be considered to involve ar	erstand the principle
claim(s publica reason ( "O" docume	ent which may throw doubts on priority ) or which is cited to establish the tion date of another citation or other special (as specified) ent referring to an oral disclosure, use, ion or other means	"Y" d c w a	when the document is taken alone locument of particular relevance; the claimed inventior onsidered to involve an inventive step when the document one or more other such documents, such combinat person skilled in the art ocument member of the same patent family	nent is combined
"P" docume	ent published prior to the international filing t later than the priority date claimed			·
	ual completion of the international search		Date of mailing of the international search report	O FEB 2004
	ing address of the ISA/AU		Authorized officer	
PO BOX 200, \	PATENT OFFICE  WODEN ACT 2606, AUSTRALIA  pct@ipaustralia.gov.au  (02) 6285 3020		TERRY MOORE	
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International application No.

PCT/AU2003/001021

C (Co-:	PCT/AU2003	3/001021
C (Continua	TO GO. GIDDAND TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Giannoukakis et al. (2000) 'Prolongation of cardiac allograft survival using dendritic cells treated with NF-kB decoy oligodeoxyribonucleotides' Molecular Therapy. Vol 1(5)( part 1): 430-437	1,3, 6-8, 10 14, 15, 18-2 34, 35, 38-5
X	Verhasselt et al. (1999) 'N-Acetyl-L-Cysteine inhibits primary human T cell Responses at the dendritic cell level: association with NF-kB Inhibition' The Journal of Immunology. Vol 162(5): 2569-2574	1,3, 6-8, 10 14, 15, 18-2 34, 35, 38-5
Х	Pan et al. (2001) 'Dexamethasone inhibits the antigen presentation of dendritic cells in MHC class II pathway' Immunology Letters Vol 76: 153-161	1,3, 6-8, 14-17, 35-4 46-58
Х	O'Sullivan BJ and Thomas R. (2002) 'CD40 ligation conditions dendritic cell antigen- presenting function through sustained activation of NF-kB' The Journal of Immunology. Vol 168(11): 5491-5498	41-58
P,X	Ruby et al. (2002) '2,3,7,8-Tetrachlorodibenzo-p-dioxin suppresses tumor necrosis factor-α and anti-CD40-induced activation of NF-κB/Rel in dendritic cells: p50 homodimer activation is not affected' Molecular Pharmacology. Vol 62: 722-728	41-45
P,X	Caldwell <i>et al.</i> (2003) 'Mechanisms of ganglioside inhibition of APC function' The Journal of Immunology. Vol 171(4): 1676-1683	1-58